

China-FRIB Initiative

Furong Xu (theory) and Yanlin Ye (experiment)

Peking University, China

Beyond CUSTIPEN (an existing and very successful travel program)...

China-FRIB cooperation in FRIB Theory

- This initiative was discussed during Witek's visit to Beijing in December 2013.**
- The Chinese steering committee chaired by Yanlin Ye (the president of Chinese Nuclear Physics Society) has been established and met twice (in Jan. and Jul. 2014).**
- The main goals are: (i) to promote collaborations between China and U.S. in rare isotope physics; and (ii) to train the young generation of Chinese nuclear theorists.**

Two proposals for the China-FRIB theory cooperation

1. Exchange programs for students, postdocs, and visitors

a. Postdoctoral and visitor program.

- Will take advantage of excellent junior talent in low-energy nuclear physics in China!
- Mechanisms for a joint funding of Chinese postdocs/visitors are being explored.

b. Student program.

- Funded by existing Chinese government studentships; supplemented by U.S. partners if needed.
- Two possible models:
 - Joint degree (Chinese + US): 3 years in China + 2 years in U.S.
 - US degree: 4-5 years abroad, student works with an U.S. mentor

While student visits are to be arranged directly between Chinese and U.S. groups, some coordination could help.

2. The second proposal (in a preliminary stage):

- **Joint research project within a broad FRIB-Asia scheme,**
 - **Covers both theory and experiment.**
-
- **This could be a part of FRIB's mid- and long-term plan; it will capitalize on current and future Chinese capabilities in rare isotope science.**
 - **Chinese nuclear physicists/engineers will collaborate with U.S. partners on physics topics and accelerator/instrumentation developments.**
 - **Such a close cooperation will undoubtedly benefit both sides.**

Next step: apply to various possible funding agencies (NSFC, MOE, MOST, DOE, NSF) for support.

Thank you for your attention !